



## PATENT APPLICATION

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.  
10005103-3SERIAL NO.  
10/684,884APPLICANT  
BASH et al.FILING DATE  
October 13, 2003GROUP  
3744

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
WJ	6,205,799 B1	Mar. 27, 2001	Patel et al.	62	132
	6,182,742 B1	Feb. 6, 2001	Takahashi et al.	165	104.33
	6,108,201	Aug. 22, 2000	Tilton et al.	361	689
	5,943,211	Aug. 24, 1999	Havey et al.	361	699
	5,924,198	Jul. 20, 1999	Swanson et al.	29	890.1
	5,907,473	May 25, 1999	Przilas et al.	361	699
	5,724,824	Mar. 10 1998	Parsons	62	171
	5,718,117	Feb. 17, 1998	McDunn et al.	62	64
	5,434,606	Jul. 18, 1995	Hindagolla et al.	347	45
	5,278,584	Jan. 11, 1994	Keefe et al.	346	140 R
	5,220,804	Jun. 22, 1993	Tilton et al.	62	64

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

WJ	Sehmbey, M.S., Pais, M.R. and Chow, L.C., "Effect of Surface Material Properties and Surface Characteristics in Evaporative Spray Cooling," THE JOURNAL OF THERMOPHYSICS & HEAT TRANSFER, July-September, 1992, Vol. 6, No. 3, pp 505-511.
WJ	Pais, Martin R., Chang, Ming J., Morgan, Michael J. and Chow, Louis C., "Spray Cooling of a High Power Laser Diode, SAE AEROSPACE ATLANTA CONFERENCE & EXPOSITION, DAYTON, OHIO, 1994, pp 1-6.
WJ	Morgan, Michael J., Chang, Won S., Pais, Martin R. and Chow, Louis C., "Comparison of High Heat-Flux Cooling Applications," SPIE, 1992, Vol. 1739, pp17-28

EXAMINER

M. J. Jones

DATE CONSIDERED

8/07/04

Rev 10/00 (PTO1449)



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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
MJ	4,794,410	Dec. 27, 1988	Taub et al.	346	140 R
	4,685,308	Aug. 11, 1987	Welker et al.	62	171
	4,683,481	Jul. 28 1987	Johnson	346	140 R
	4,576,012	Mar. 18, 1986	Luzenberg	62	157
	4,559,789	Dec. 24, 1985	Riek	62	157
	4,500,895	Feb. 19, 1985	Buck et al.	346	140 R
	4,490,728	Dec 25, 1984	Vaught et al.	346	1.1
	4,352,392	Oct. 5, 1982	Eastman	165	104.25
	4,290,274	Sep. 22, 1981	Essex	62	157
	4,141,224	Feb. 27, 1979	Alger et al.	62	514 R
MJ	2,875,263	Feb. 24, 1959	Narbut	174	15

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	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION	
						YES	NO

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

MJ	Lee, Chin C., and Chien, David H., "Thermal and Package Design of High Power Laser Diodes," IEEE, 1993, Ninth IEEE Semi-Therm Symposium, pp 75-80.
MJ	Sehmbey, Malinder S., Chow, Louis C., Pals, Martin R. and Mahefkey, Tom, "High Heat Flux Spray Cooling of Electronics," AMERICAN INSTITUTE OF PHYSICS, January, 1995, pp 903-909.
MJ	Mudawar, I. and Estes, K.A., "Optimizing and Predicting CHF in Spray Cooling of a Square Surface," JOURNAL OF HEAT TRANSFER, August, 1996, Vol. 118, pp 672-679.
EXAMINER	DATE CONSIDERED
Mellones	8/01/04



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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
MS	2,858,355	Oct. 28, 1958	Narbut	174	15
MS	2,849,523	Aug. 26, 1958	Narbut	174	15
MS	2,643,282	June 23, 1953	Greene	174	15
	5,658,387	Aug. 19, 1997	Reardon	118	323

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
MS	EP 509844 A1	Oct. 21, 1992	Yamamoto et al.	165	104.33		
MS	JP 56-137086	Oct. 26, 1981	Mikane et al.	165	104.33		X

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

MS	Denney, D. Lawrence, "High Heat Flux Cooling Via a Monodisperse Controllable Spray", A Thesis Presented to The Academic Faculty of Georgia Institute of Technology in Partial Fulfillment of the Requirements for the Degree Master of Science in Mechanical Engineering, March 1996.
EXAMINER	DATE CONSIDERED
MS	8/07/04